

Title (en)

COMPACT STACK VALVE GATE

Title (de)

KOMPAKTES STAPELVENTIL-GATE

Title (fr)

ENTRÉE À OBTURATEUR À EMPILEMENT COMPACT

Publication

**EP 4100674 A1 20221214 (EN)**

Application

**EP 21750245 A 20210203**

Priority

- US 202062969904 P 20200204
- US 2021016346 W 20210203

Abstract (en)

[origin: WO2021158616A1] An injection molding system is disclosed herein that may include a manifold that may have a manifold melt channel for receiving melted resin, a nozzle having a nozzle melt channel for receiving the melted resin from the manifold melt channel and delivering the melted resin to a mold cavity via a mold gate. In other examples, a valve pin may extend through at least a portion of the nozzle melt channel such that a forward end of the valve pin may be seatable within the mold gate. In certain examples, the injection molding system may include one or more drop plate, each of which defines walls of a cylinder within which a piston reciprocates, and each which may contain cooling circuits and pressurized circuits for opening and closing the piston. With regard to injection molding system containing multiple drop plates, each drop plate is independent of the other drop plates, and each drop plate is dedicated to a single nozzle assembly. In other examples, the drop plates may house a valve pin coupling system configured to permit movement of a valve pin in a lateral direction independent from a lateral position of the piston.

IPC 8 full level

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